

SHARP SERVICE MANUAL

No. S17B8LCC3242U



LCD COLOR TELEVISION

MODEL LC-C3242U

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

OUTLINE

This model is based on the LC-32D42U and is changed some parts. This Service Manual covers the modifications alone. For the other points, refer to the LC-32/37D42U Service Manual.

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

DIFFERENCES FROM BASE MODEL**LIST OF CHANGED PARTS**

Ref. No.	Description	LC-32D42U	LC-C3242U	Note
PWB ASSEMBLIES				
	MAIN Unit	DUNTKD862FM04	←	—
	R/C, LED Unit	DUNTKD909FM02	←	—
	KEY Unit	DUNTKD910FM02	←	—
	AV TERMINAL Unit	DUNTKD999FM04	←	—
	POWER Unit	RDENCA198WJQZ	←	—
LCD PANEL				
	32" WIDE LCD Panel Module Unit	R1LK315T3LZ4BX	R1LK315T3LZ50Z	—
CABINET AND MECHANICAL PARTS				
Please refer to a Parts list.				
PACKING PARTS AND ACCESSORIES				
Please refer to a Parts list.				

SAFETY PRECAUTION

IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

■WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE.

F7001 (250V 6.3A)

■BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

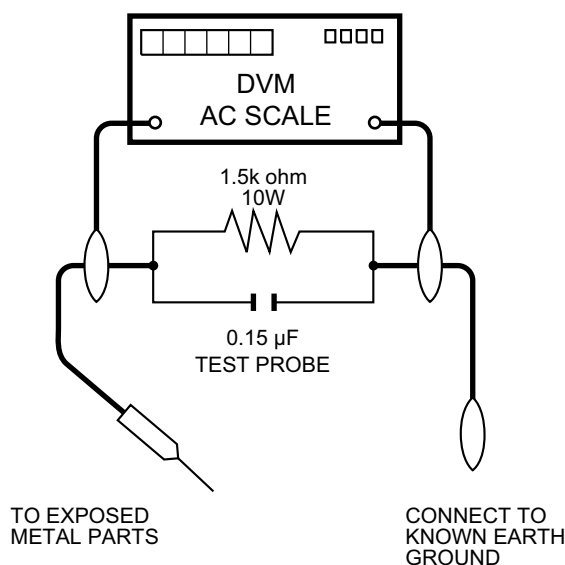
Before returning the receiver to the user, perform the following safety checks:

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - Plug the AC cord directly into a 120 volt AC outlet.
 - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.75 Vrms (this corresponds to 0.5 mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD color television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

PRECAUTIONS A PRENDRE LORS DE LA REPARATION

■ Ne peut effectuer la réparation qu'un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.

■ AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit. C'est dangereux.
2. Débrancher le récepteur avant toute réparation.

PRECAUTION: POUR LA PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE, REMPLACER LE FUSIBLE

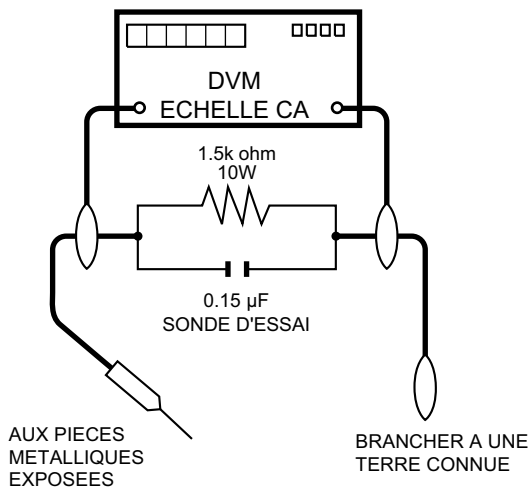
F7001 (250V 6.3A)

■ VERIFICATIONS CONTRE L'INCENDIE ET LE CHOC ELECTRIQUE

Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

3. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
4. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistancecapacité, les isolateurs mécaniques, etc.
5. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la façon suivante:
 - Brancher le cordon d'alimentation directement à une prise de courant de 120V. (Ne pas utiliser de transformateur d'isolation pour cet essai).

- A l'aide de deux fils à pinces, brancher une résistance de 1.5 k Ω 10 watts en parallèle avec un condensateur de 0.15 μ F en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.
- Utiliser un voltmètre CA d'une sensibilité d'au moins 5000 Ω /V pour mesurer la chute de tension en travers de la résistance.
- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écusson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adaptation non polarisée peut être utilisée dans le but de terminer ces vérifications.)
La tension de pointe mesurée ne doit pas dépasser 0.75V (correspondante au courant CA de pointe de 0.5mA). Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.



AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseur ACL présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.

Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚡" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.

Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

■Employing lead-free solder

- “PWBs” of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

LFa
Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

LFa/a
Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

■Using lead-free wire solder

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

■Soldering

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

PARTS CODE	PRICE RANK	PART DELIVERY	DESCRIPTION
ZHNDai123250E	BL	J	φ0.3mm 250g (1roll)
ZHNDai126500E	BK	J	φ0.6mm 500g (1roll)
ZHNDai12801KE	BM	J	φ1.0mm 1kg (1roll)

PRECAUTIONS IN SERVICING THE HDCP-KEY ROM

Applied part: HDCP-KEY ROM
IC8451 RH-IXB979WJQZY (updated ROM)

The HDCP-KEY ROM shall be protected and managed for its information inside. In servicing this ROM, therefore, take the following information protection/management measures.

- 1) When disposing of the component parts and PWBs, destruct the IC itself in a proper way.
(For repairing or replacing the component parts and PWBs as well as clearing those in stock)
- 2) In storing the component parts, protect and manage them against theft and disclosure.
(For storing the service parts, service units, etc.)

SHARP PARTS GUIDE

No. S17B8LCC3242U

Note:

The reference numbers on the PWB are arranged in alphabetical order.

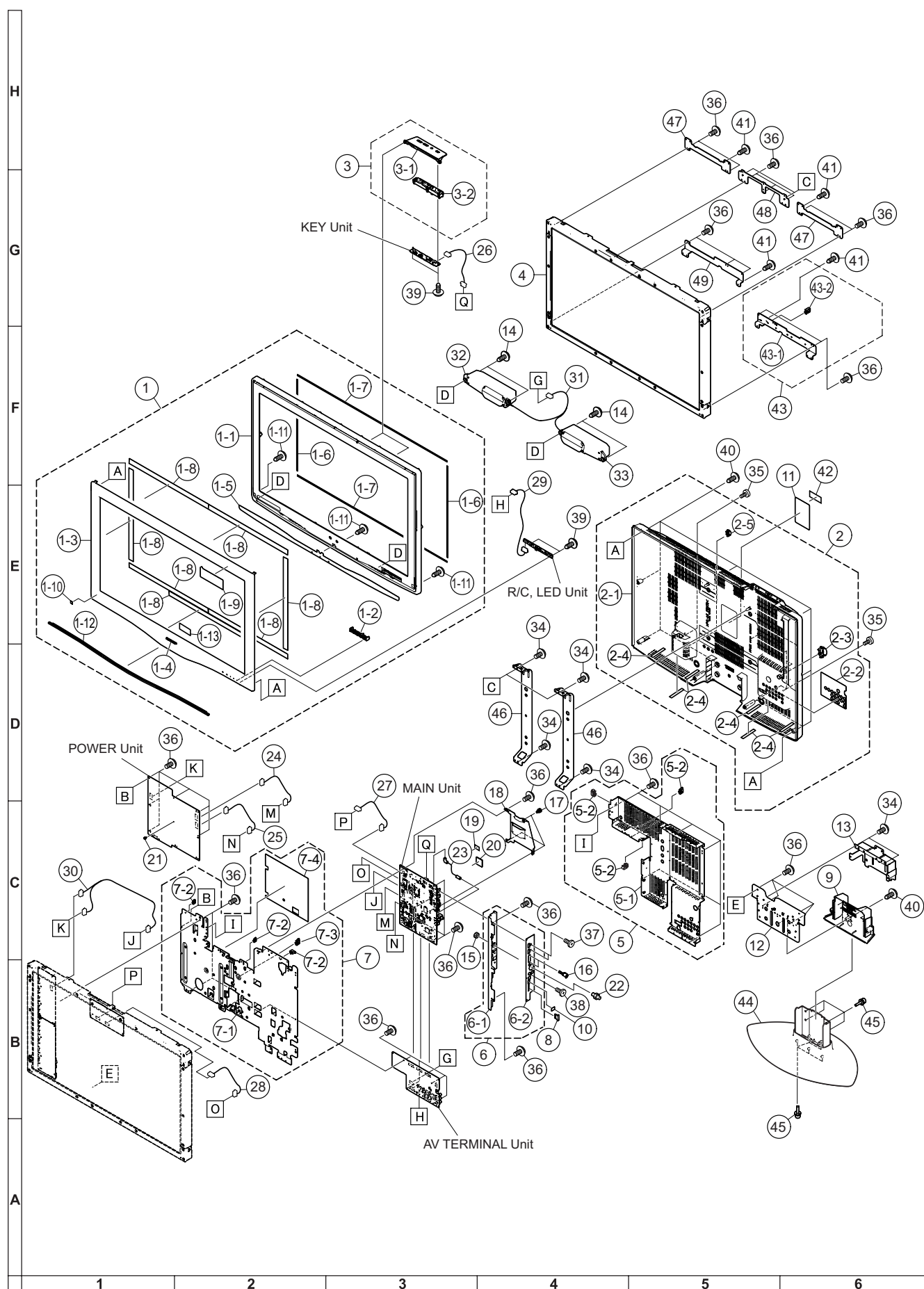
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| [2] CABINET AND MECHANICAL PARTS | [5] SERVICE JIGS (USE FOR SERVICING) |
| [3] SUPPLIED ACCESSORIES | |

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

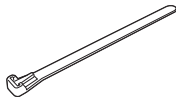
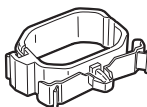
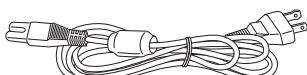
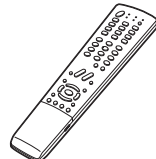

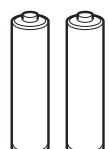
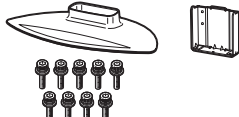
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[1] LCD PANEL (NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.)					
N	R1LK315T3LZ50Z	EE	N	J	32" WIDE LCD Panel Module Unit

[2] CABINET AND MECHANICAL PARTS



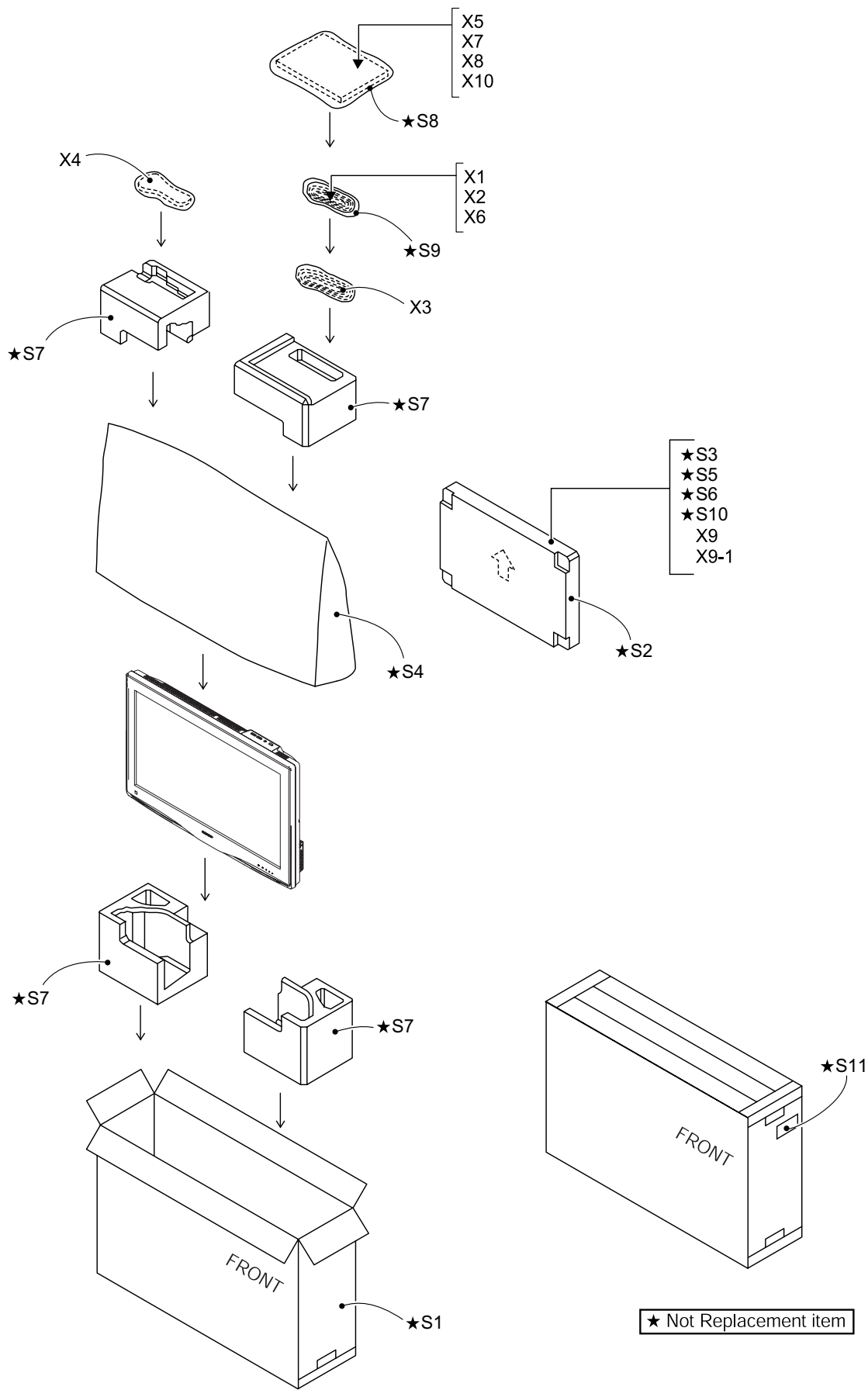
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[2] CABINET AND MECHANICAL PARTS					
1	CCABAB612WJ04		N	X	Front Cabinet Ass'y
1-1	Not Available	-		-	Front Cabinet
1-2	Not Available	-		-	LED Cover
1-3	Not Available	-	N	-	Front Cover
1-4	Not Available	-		-	Badge, SHARP
1-5	HPNLSA100WJSB	AY		X	SP-Net
1-6	Not Available	-		-	Spacer, x2
1-7	Not Available	-		-	Spacer, x2
1-8	Not Available	-		-	Double Tape, x7
1-9	TLABZB392WJSA	AF		X	POP Label
1-10	TLABZA635WJZZ	AC		J	Label
1-11	XJPSN30P08XS0	AA		J	Screw (for Front Cover), x3
1-12	HDECSA014WJSA	AQ		X	Shaine Trim
1-13	Not Available	-		-	Spacer
2	CCABBA950WJ01	BL		X	Rear Cabinet Ass'y
2-1	Not Available	-	N	-	Rear Cabinet
2-2	Not Available	-	N	-	Terminal Label
2-3	LHLDWA057WJKZ	AE		J	Wire Holder
2-4	Not Available	-	N	-	Spacer, x6
2-5	LHLDWA055WJKZ	AC		J	Wire Holder
3	CCOVAB929WJ01	AM		X	Top Cover Ass'y
3-1	Not Available	-		-	Top Cover
3-2	Not Available	-		-	Operation Button
4	R1LK315T3LZ50Z	EE	N	J	32" WIDE LCD Panel Module Unit
5	CSLDMB061WJ01	AX		X	MAIN Shield Ass'y
5-1	Not Available	-		-	MAIN Shield
5-2	LHLDWA102WJKZ	AB		J	Wire Holder, x3
6	CANGKA902WJ01	AN	N	X	Jack Angle Ass'y
6-1	Not Available	-	N	-	Jack Angle
6-2	Not Available	-	N	-	Jack Indicator
7	CCHSMA346WJ01	AZ	N	X	Tray Chassis Ass'y
7-1	Not Available	-	N	-	Tray Chassis
7-2	LHLDWA102WJKZ	AB		J	Wire Holder, x3
7-3	LHLDWA120WJKZ	AB		J	Wire Holder
7-4	Not Available	-		-	Barrier Sheet
8	GCOVAA678WJKA	AE		J	SD Card Cover
9	GCOVAB931WJKA	AL		X	Stand Area Cover
10	HiNDPB715WJSA	AF		X	Terminal Label
11	HiNDPC377WJSA	AH	N	X	Model Label
12	LANGKA913WJM1	BC		X	Stand Fix Angle
13	LANGKA914WJFW	AL		X	Stand Assist Angle
14	LX-HZA003WJFN	AC		J	Screw (for SP-BOX), x4
15	LX-NZ3047GEZZ	AA		J	Nut
16	NSFTZ0134CEFW	AD		J	Shaft, x2
17	PCLICA004WJKZ	AC		J	Rivet, x3
18	PRDARA414WJFW	AK	N	X	Heat Sink
19	PSPAZA635WJKZ	AC		J	Cool Sheet
20	PSPAZA917WJKZ	AH		J	Cool Sheet
21	PSPAZB030WJKZ	AB		J	Spacer
22	QCNCWA496WJZZ	AK		X	Connector (F-RCA)
23	QCNCW-E249WJPZ	AH		J	Connecting Cord (ANT IN)
24	QCNCW-E257WJQZ	AH		J	Connecting Cord (PE)
25	QCNCW-E258WJQZ	AG		J	Connecting Cord (PD)
26	QCNCW-E266WJQZ	AF		J	Connecting Cord (KM)
27	QCNCW-E278WJQZ	AH		J	Connecting Cord (SH)
28	QCNCW-E703WJPZ	AX		X	Connecting Cord (LV)
29	QCNCW-F250WJQZ	AL	N	X	Connecting Cord (RA)
30	QCNCW-F300WJQZ	AL	N	X	Connecting Cord (LA-LA, LB)
31	QCNCW-F316WJQZ	AG	N	X	Connecting Cord (SP)
32	RSP-ZA215WJZZ	AY		X	Speaker (L)
33	RSP-ZA216WJZZ	AY		X	Speaker (R)
34	XBBS740P06000	AA		J	Screw (for ANG), x6
35	XBBS930P06000	AA		J	Screw (for CAB-B), x5
36	XBPS730P06WS0	AA		J	Screw (for PWB,ANG), x42
37	XBPS830P06000	AA		J	Screw (for HDMI), x2
38	XEBS930P08000	AA		J	Screw (for JACK)
39	XEBS930P10000	AA		J	Screw (for LED), x2 (for KEY), x2
40	XEBS940P16000	AB		J	Screw (for CAB-B), x10
41	XEBSN40P10000	AB		J	Screw (for PANEL), x4
42	TLABNB037WJZZ	AD		X	No. Label
43	CANGKA930WJ01	AL		X	Rug Angle Bottom R Ass'y
43-1	Not Available	-	N	-	Rug Angle Bottom R
43-2	LHLDWA120WJKZ	AB		J	Wire Holder
44	CDAi-A332WJ04		N	X	Stand Unit
45	Not Available	-	N	-	Screw (for Stand), x9
46	LANGTA414WJM1	AP		X	Center Angle, x2
47	LANGHA052WJFW	AG		X	Rug Angle Top, x2
48	LANGHA051WJFW	AG		X	Center Angle Top
49	LANGKA929WJFW	AK		X	Rug Angle Bottom L

[3] SUPPLIED ACCESSORIES

X1	Cable Band	X2	Cable Clamp	X3	AC Cord	X4	Remote Control Unit
							
X5	Operation Manual	X6	"AAA" Size Battery	X9 Stand Unit			
				<div> X9-1</div>			

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[3] SUPPLIED ACCESSORIES					
X1	LHLDWA083WJ00	AD		J	Cable Band
X2	LHLDWA131WJKZ	AE		J	Cable Clamp
X3	QACCD A039WJPZ	AQ		J	AC Cord
X4	RRMCGA535WJSA	AY		X	Remote Control Unit
X5	TINS-D085WJZZ	AN	N	X	Operation Manual
X6	Not Available	-		-	"AAA" Size Battery
X7	TCADEA208WJZZ	AD		X	Enquete Card
X8	TCAUHA263WJZZ	AD		X	Caution Card
X9	CDAl-A332WJ04		N	X	Stand Unit
X9-1	UKOGLA001WJZZ	AK		X	Tool for Stand
X10	TGAN-A768WJZZ	AD		X	Guarantee Card

[4] PACKING PARTS (NOT REPLACEMENT ITEM)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
[4] PACKING PARTS (NOT REPLACEMENT ITEM)					
S1	SPAKCD468WJZZ	-	N	-	Packing Case
S2	SPAKFB119WJZZ	-		-	Stand Case
S3	SPAKFB120WJZZ	-		-	Stand Pad
S4	SPAKPA794WJZZ	-		-	Wrapping Paper (Monitor)
S5	SPAKPA796WJZZ	-		-	Mirror Mat Base
S6	SPAKPA798WJZZ	-		-	Mirror Mat Sup
S7	SPAKXB306WJZZ	-		-	Packing Add.
S8	SSAKA0101GJZZ	-		-	Polyethylene Bag
S9	SSAKAA032WJZZ	-		-	Polyethylene Bag
S10	SSAKHA035WJZZ	-	N	-	Polyethylene Bag (for Screw)
S11	TLABKA009WJZZ	-		-	No. Label
[5] SERVICE JIGS (USE FOR SERVICING)					
N	QCNW-D483WJQZ	AX		J	Connecting Cord (PE (PA) 12pin 100cm)
N					MAIN to POWER Unit
N	QCNW-E068WJQZ	AS		J	Connecting Cord (PD (MI) 6pin 100cm)
N					MAIN to POWER Unit
N	QCNW-F304WJQZ	AV		J	Connecting Cord (LA/LB 4p-8p 130cm)
N					MAIN to INVERTER Unit
N					Connecting Cord (LA 10p-14p 100cm)
N					POWER to INVERTER Unit
N	QCNW-E673WJPZ	BP		J	Connecting Cord (LV 30pin 100cm)
N					MAIN to LCD CONTROL Unit
N	QCNW-E674WJQZ	AS		J	Connecting Cord (SH 7pin 100cm)
N					MAIN to LCD CONTROL Unit

SHARP

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